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Title:

**VERTICAL CRUSHER**

Document Type and Number:

Japanese Patent JP09066243

Kind Code:

A

Abstract:

**PROBLEM TO BE SOLVED:** To make the crushed grain diameter of a foam insulation material optimum for the after-treatment and make metals round after crushing to improve the yield by specifying the opening ratio of a bottom plate set between a crushing chamber and a discharge outlet.

**SOLUTION.** A bottom plate 5 is set between a crushing chamber 7 and a discharge outlet 10, and the opening ratio  $P=Sg/S_0$  ( $S_0$  is the area of the hole of annular bottom plate 5, and  $Sg$  is the sum total of the area of opening section.) of the bottom plate 5 is set as 0.20-0.60. Also the product ( $=P_s \cdot V$ ) of the particle passage rate  $S=Ss/S_0$  ( $Ss$  represents the area encircled by the locus of average particle diameter inscribing the openings.) and the effective crushing chamber volume ratio ( $V$  = the product of the volume  $V$  determined by the locus of a hammer end and the wall surfaces of the crushing chamber/the volume  $V_0$  encircled by the wall surfaces of the crushing chamber.) is set as 0.04-0.11. The number of collisions of the hammer for materials to be crushed with the sidewalls in the crushing chamber can be reduced, and crushed pieces can be discharged quickly out of the crushing chamber by the arrangement.

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